

Fig. 1

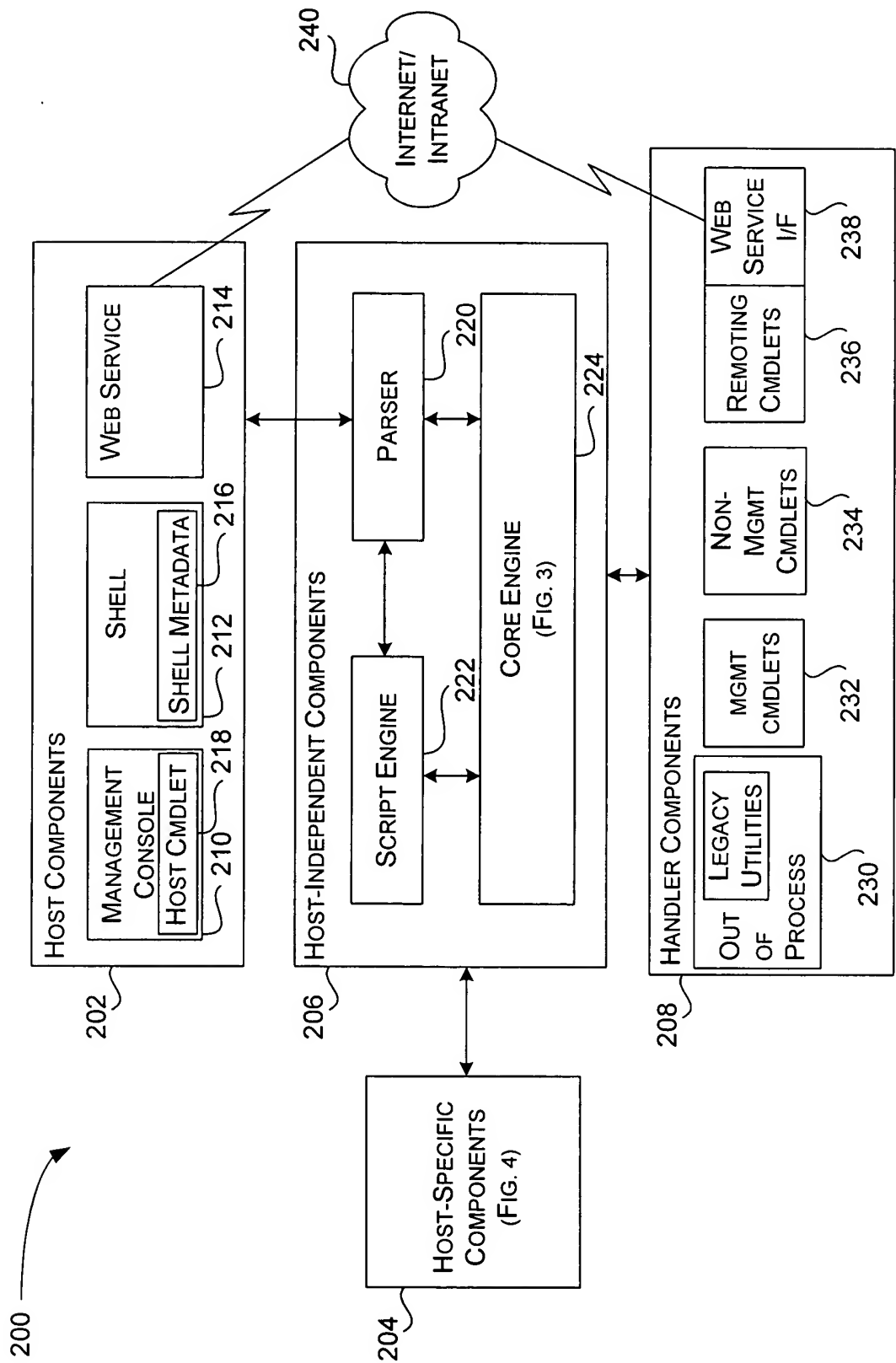


Fig. 2

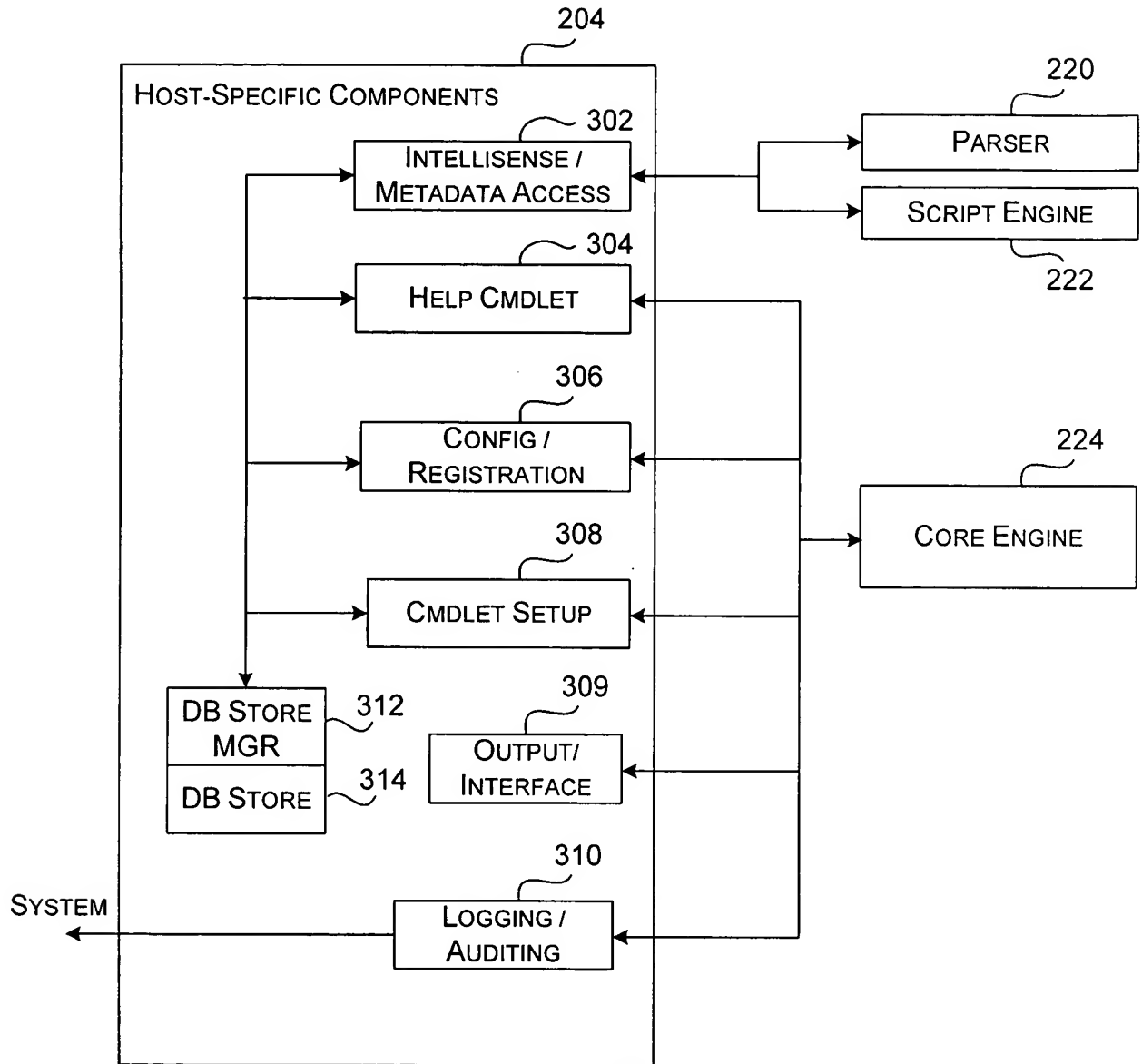


Fig. 3

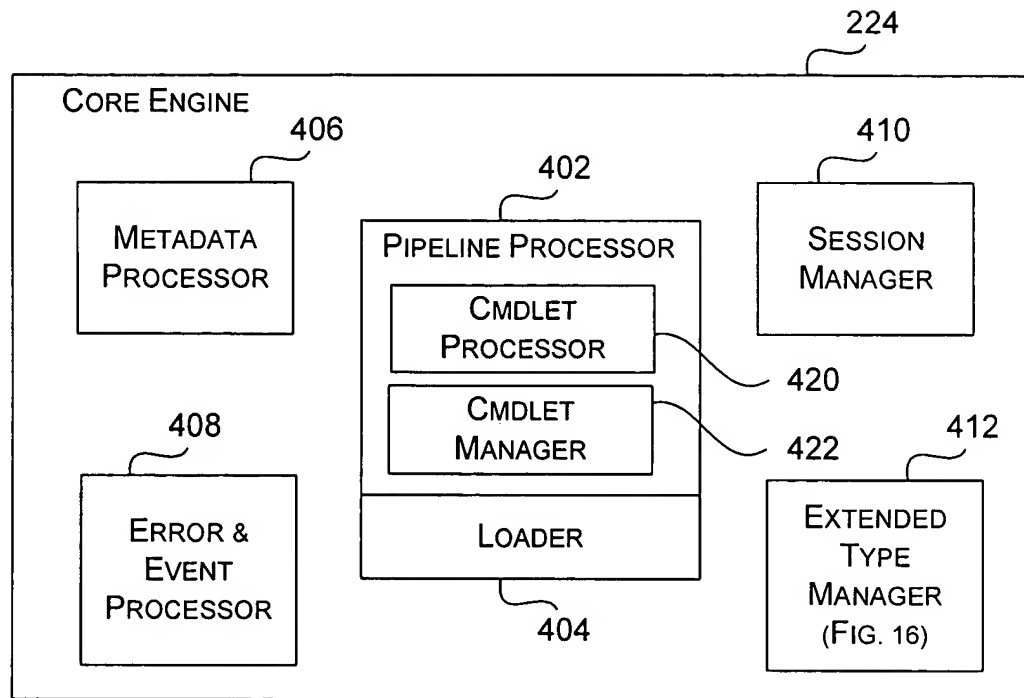


Fig. 4

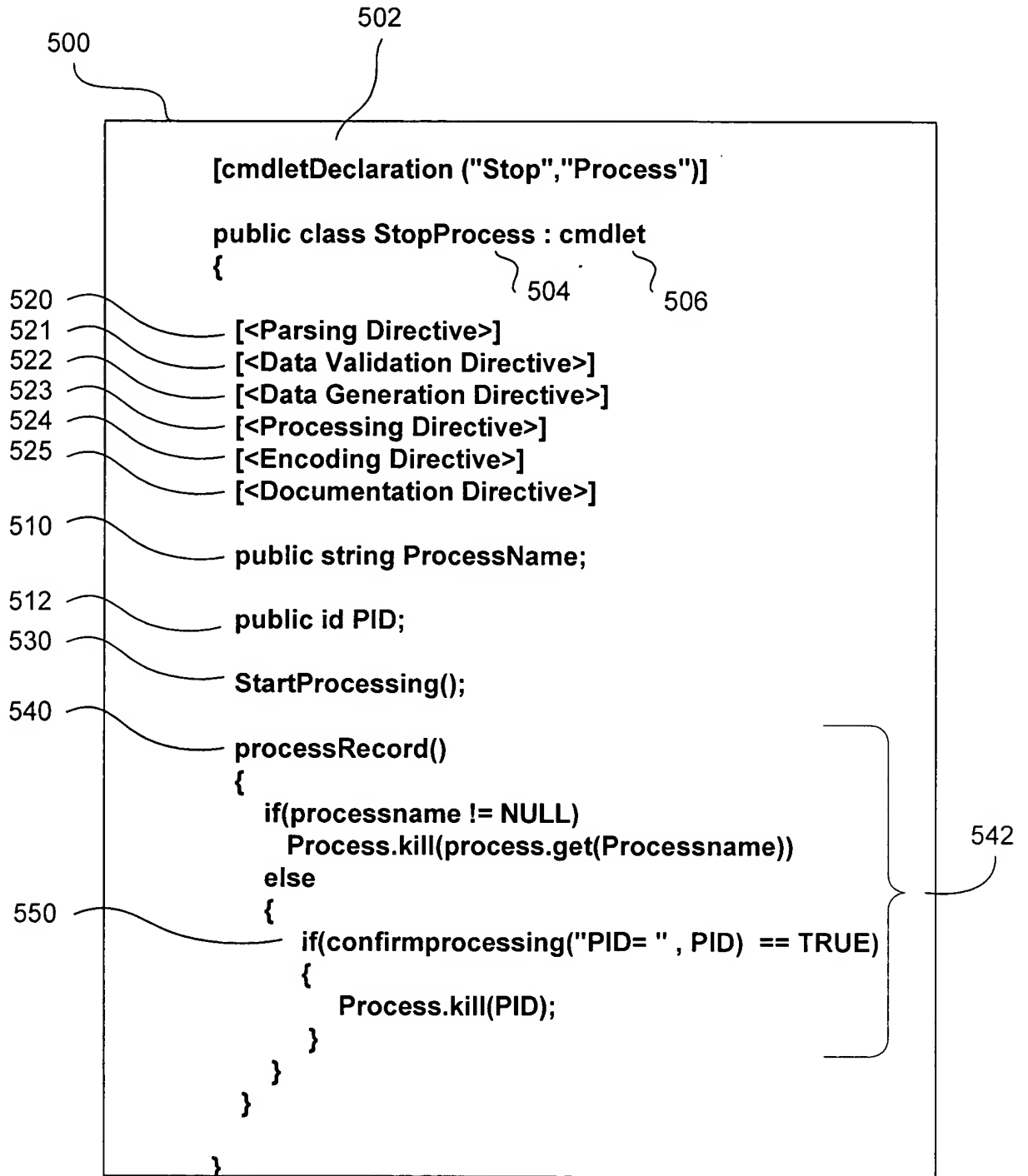


Fig. 5

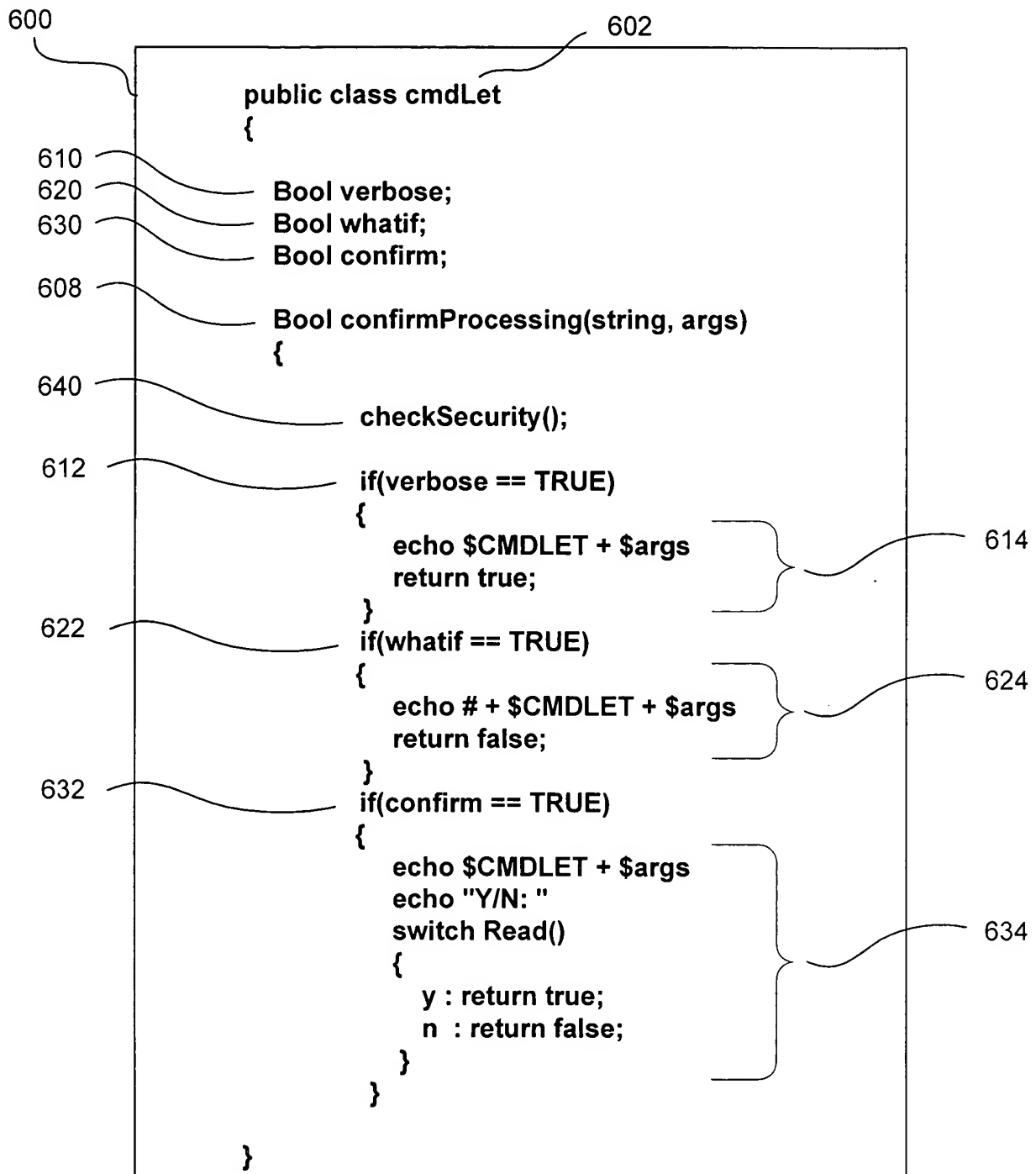


Fig. 6

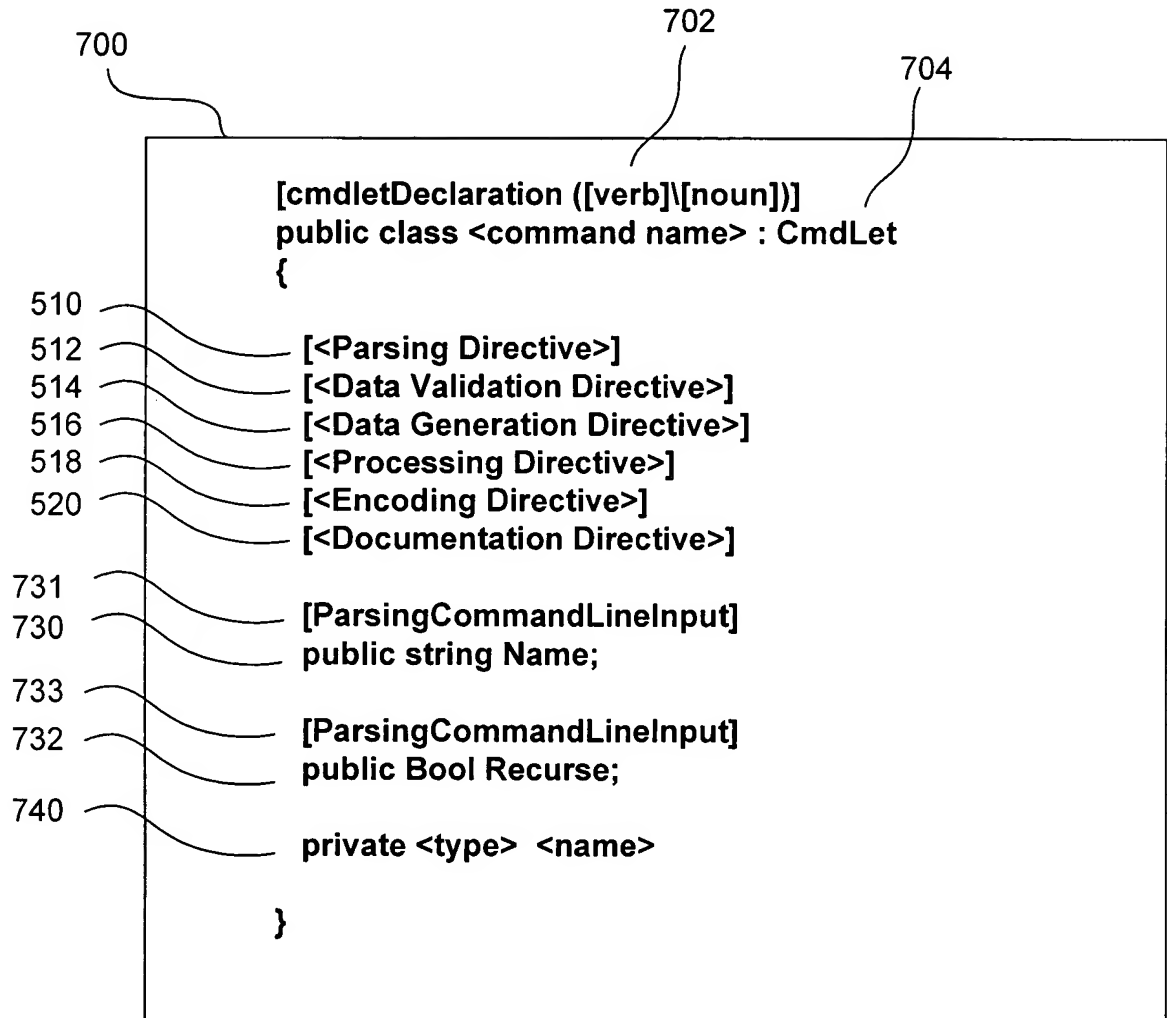


Fig. 7

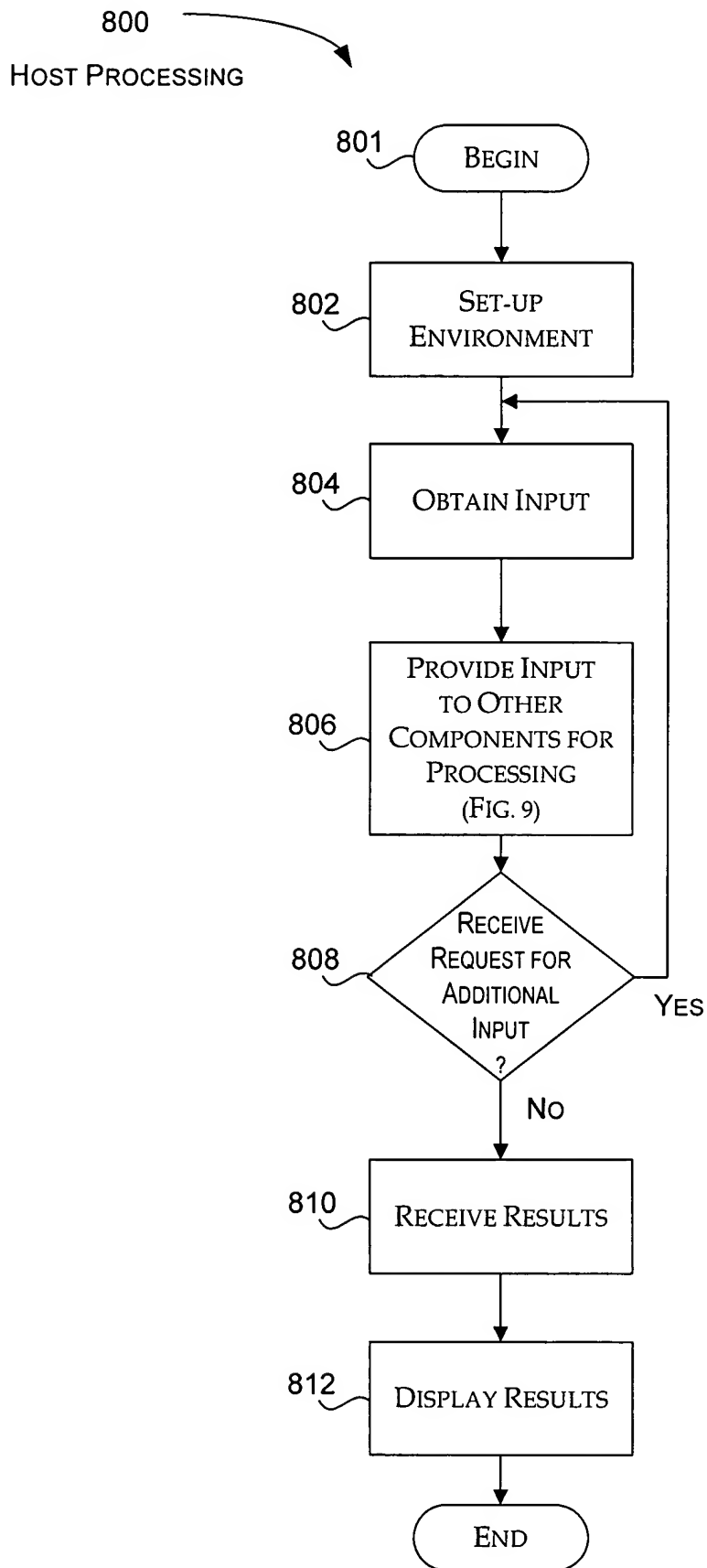


Fig. 8

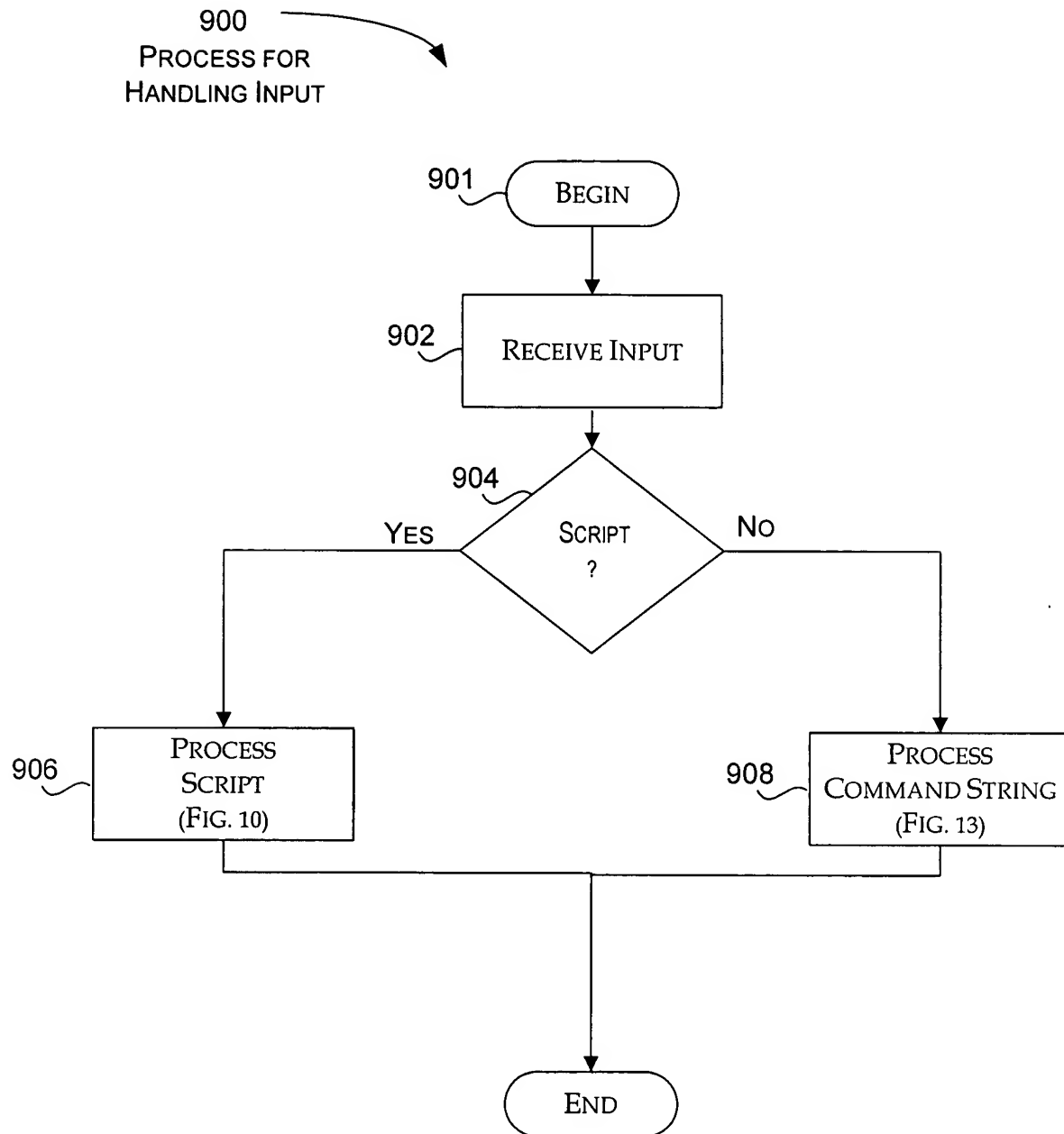


Fig. 9

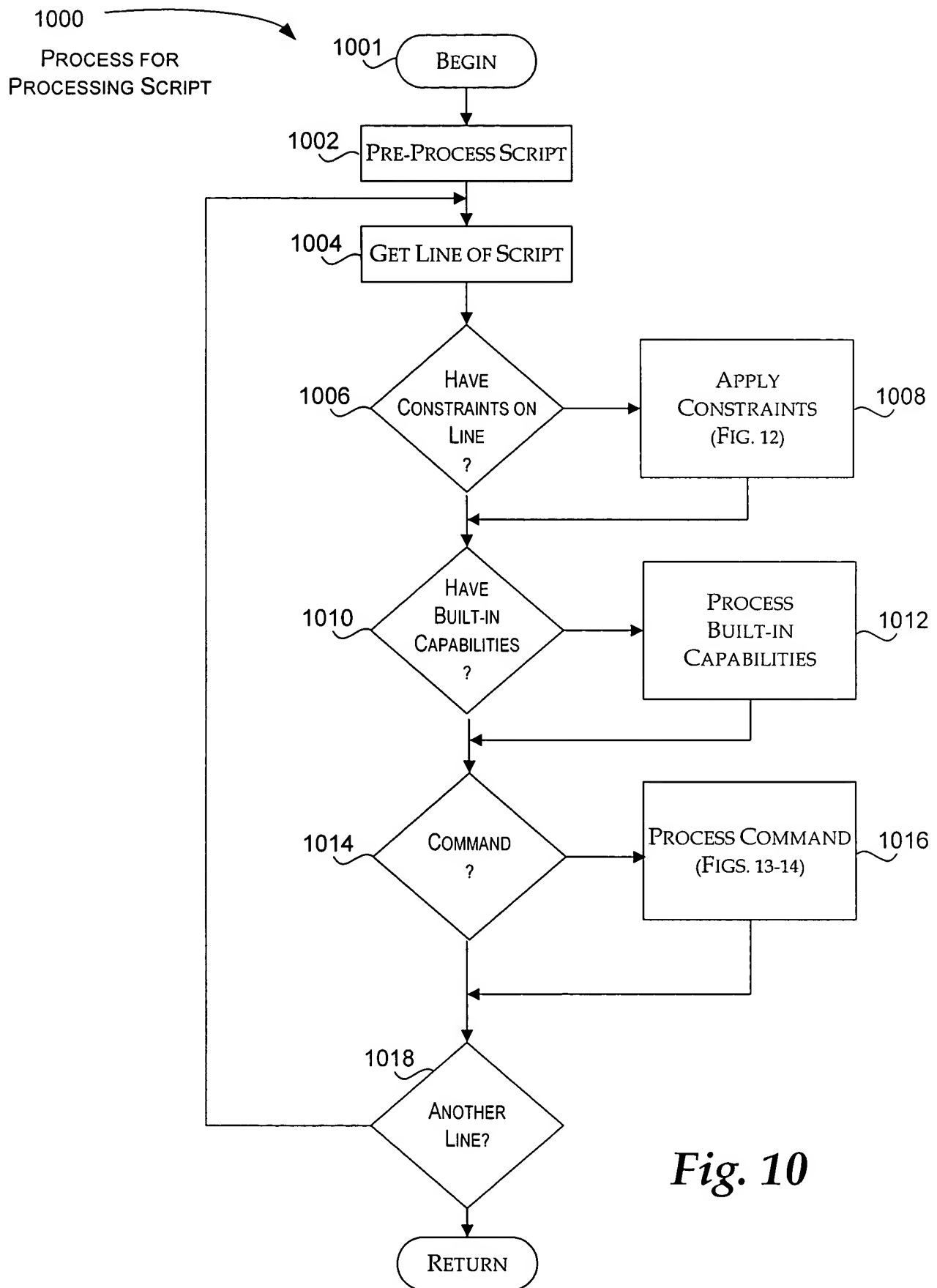


Fig. 10

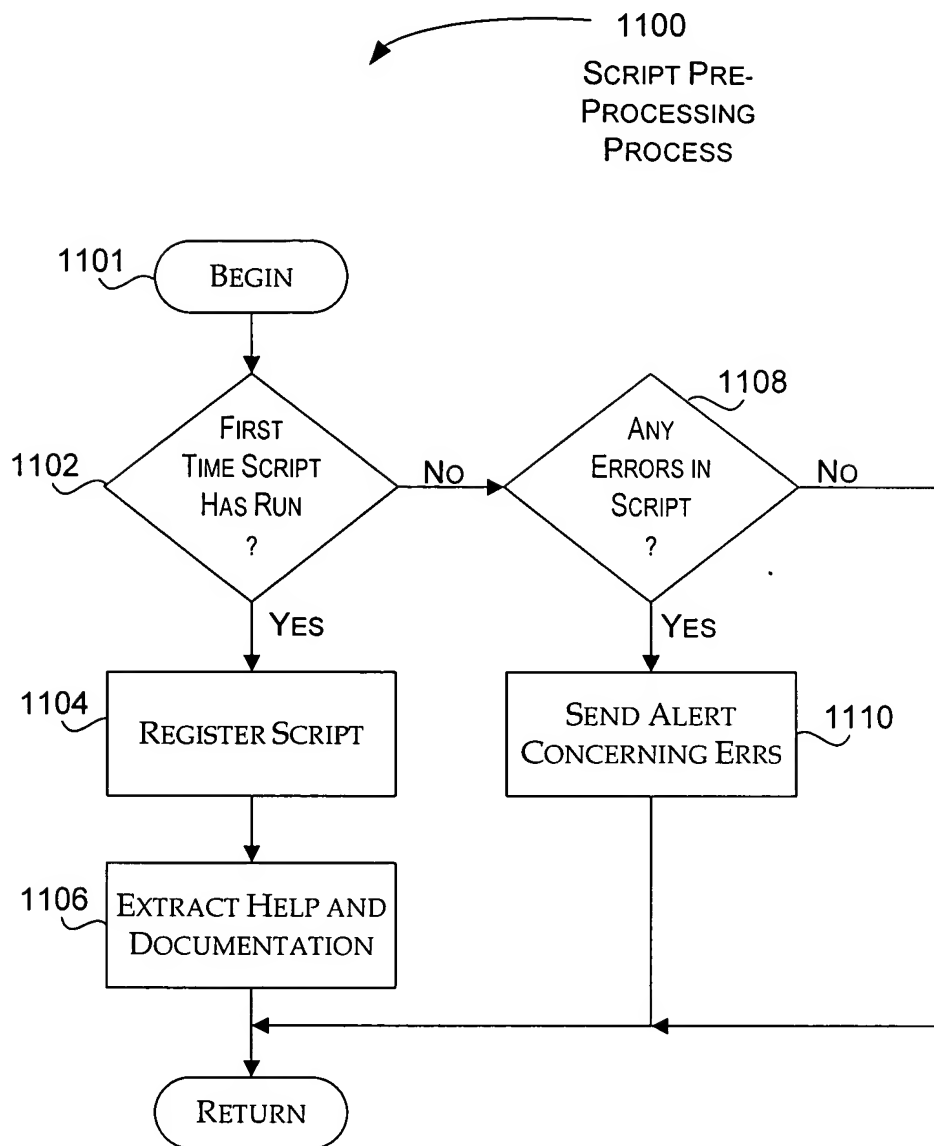


Fig. 11

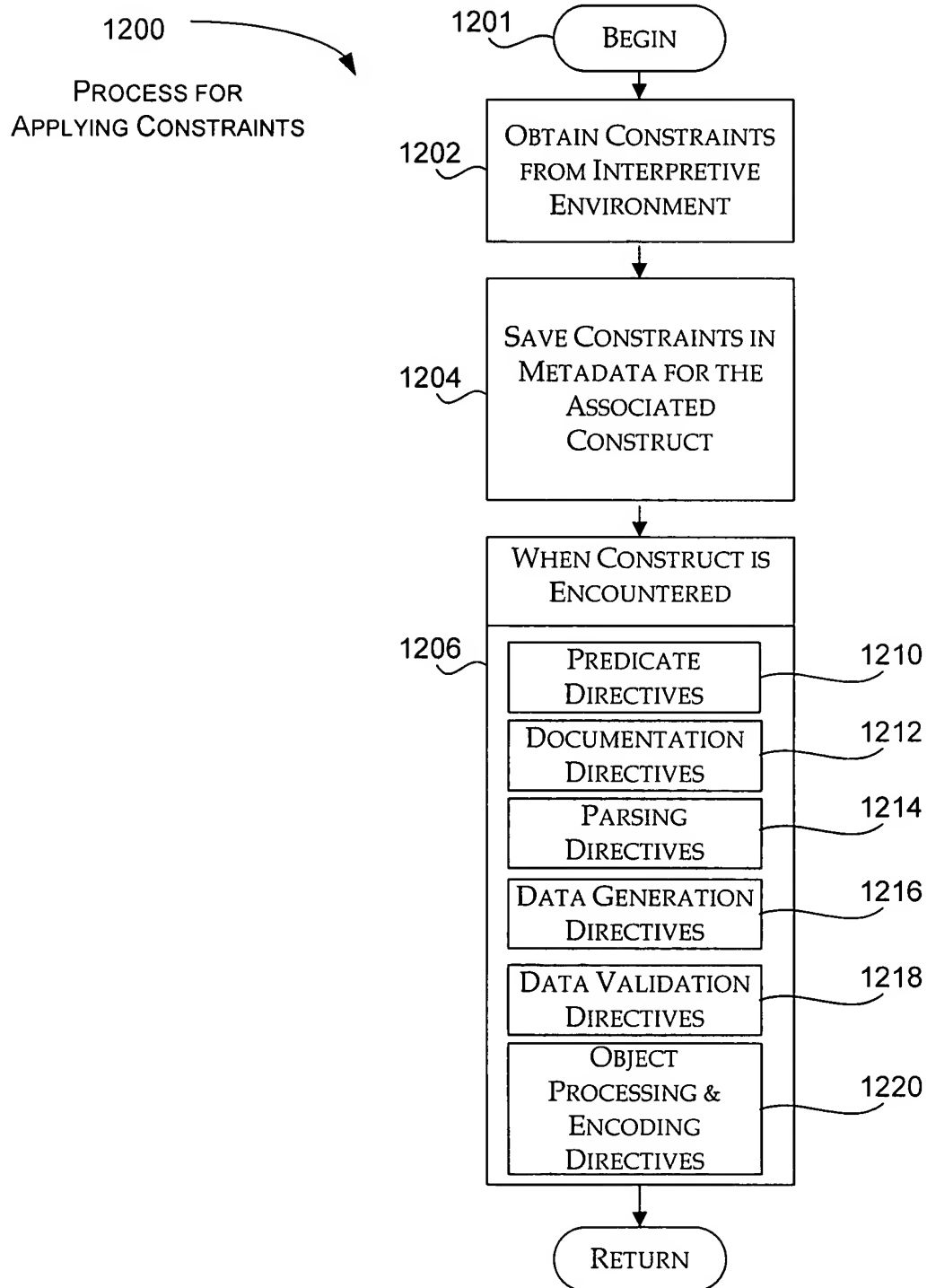


Fig. 12

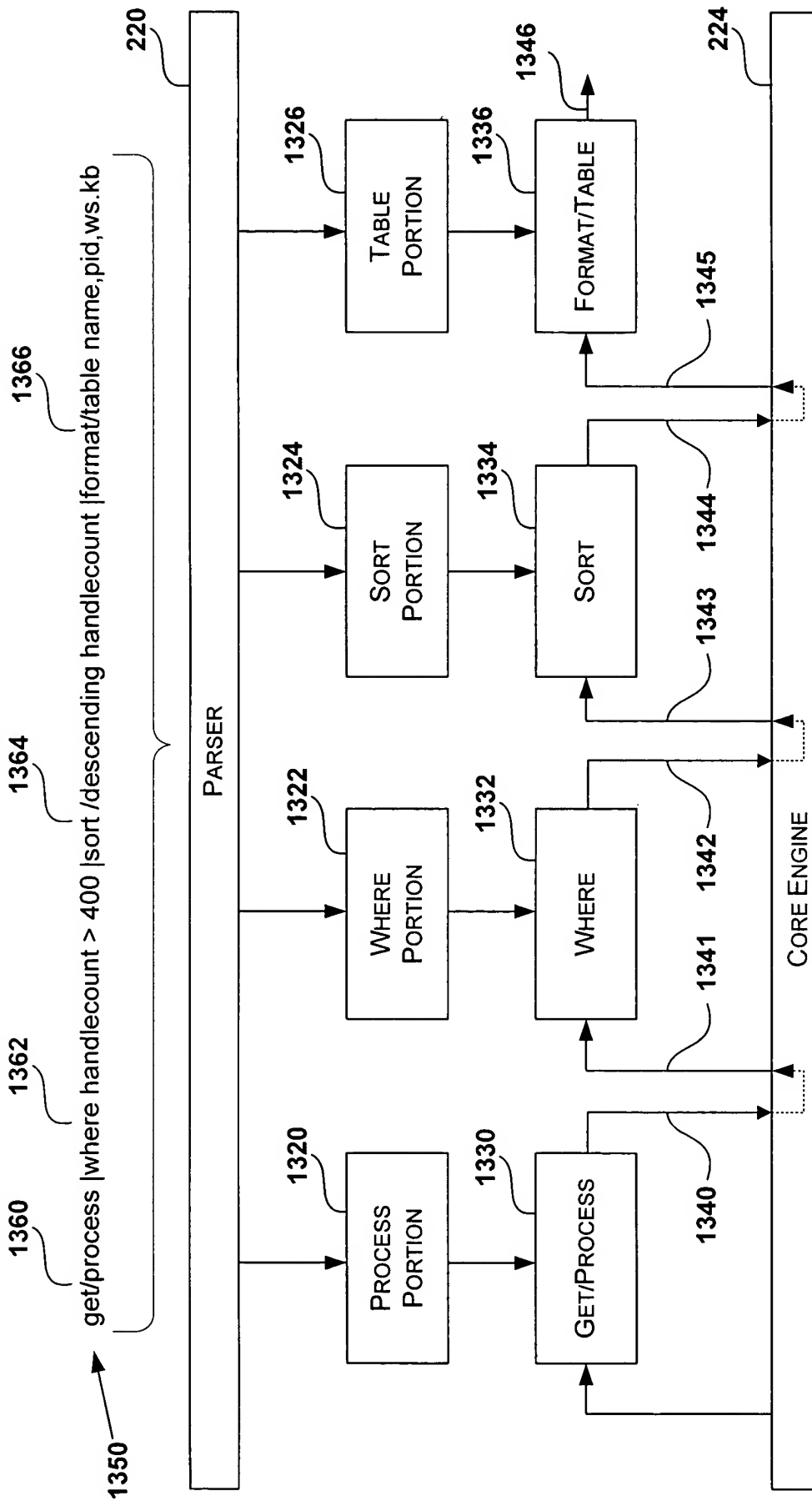


Fig. 13

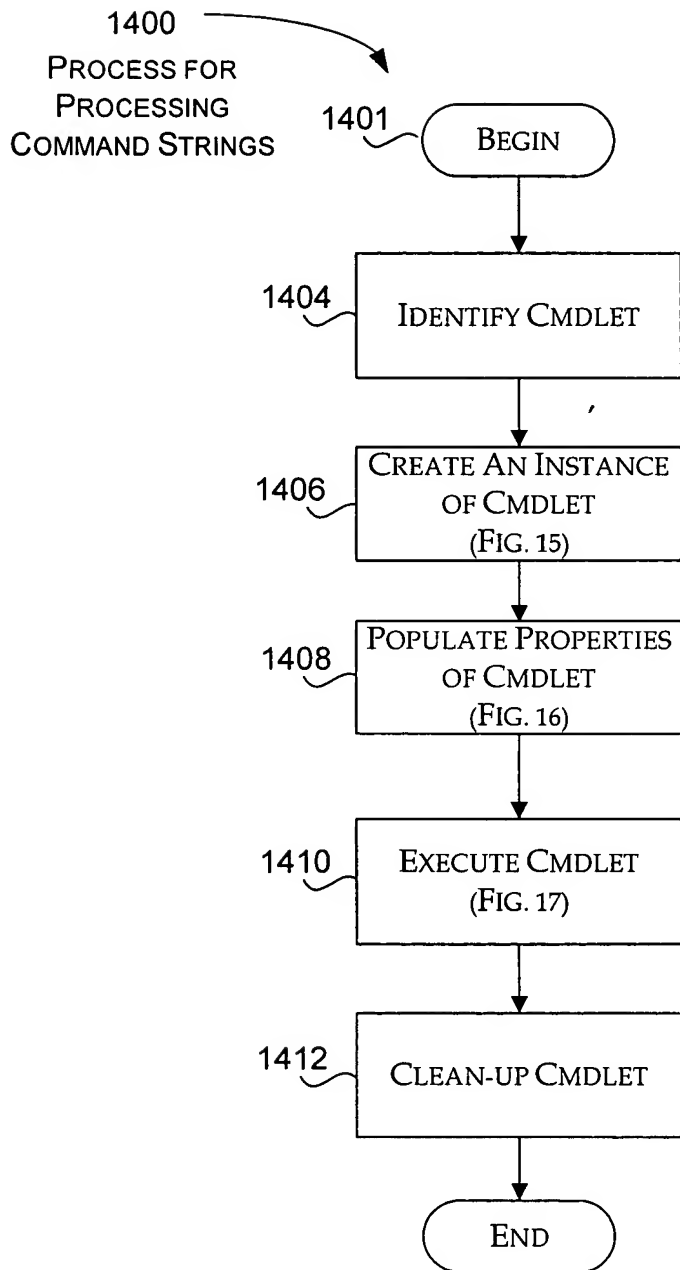


Fig. 14

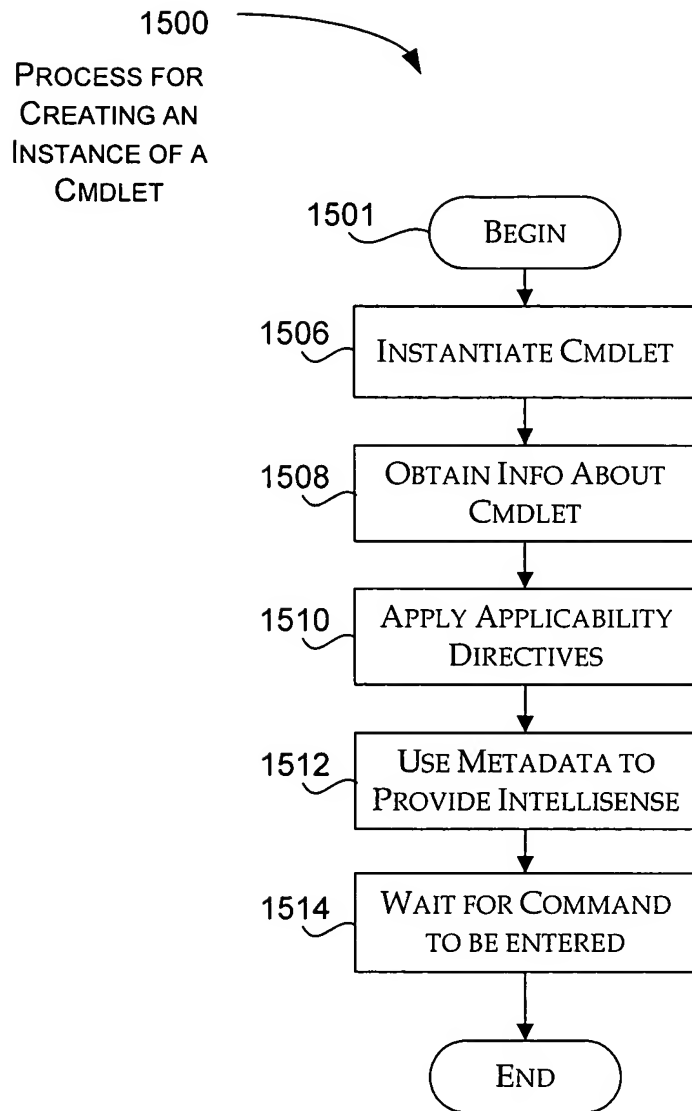


Fig. 15

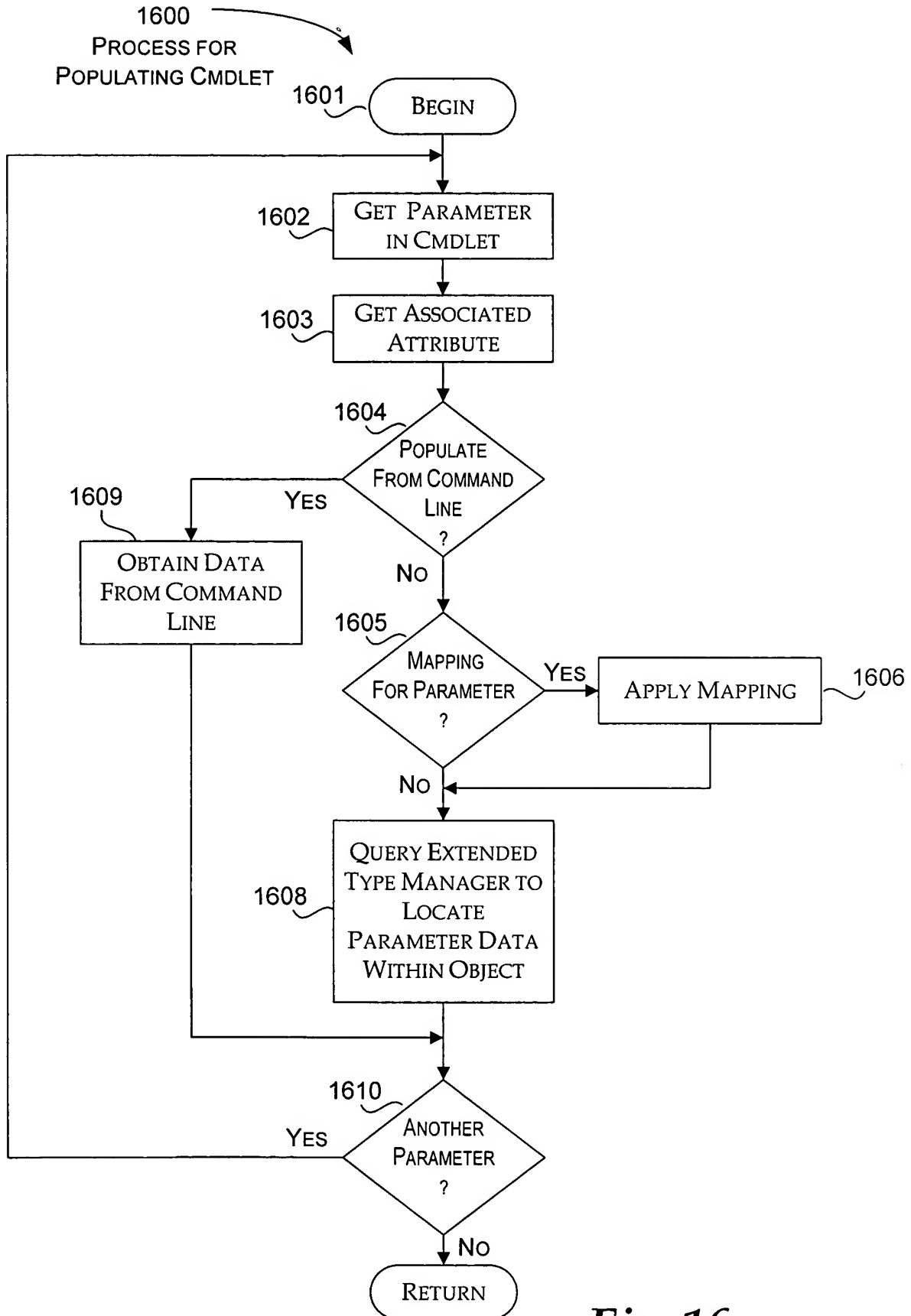


Fig. 16

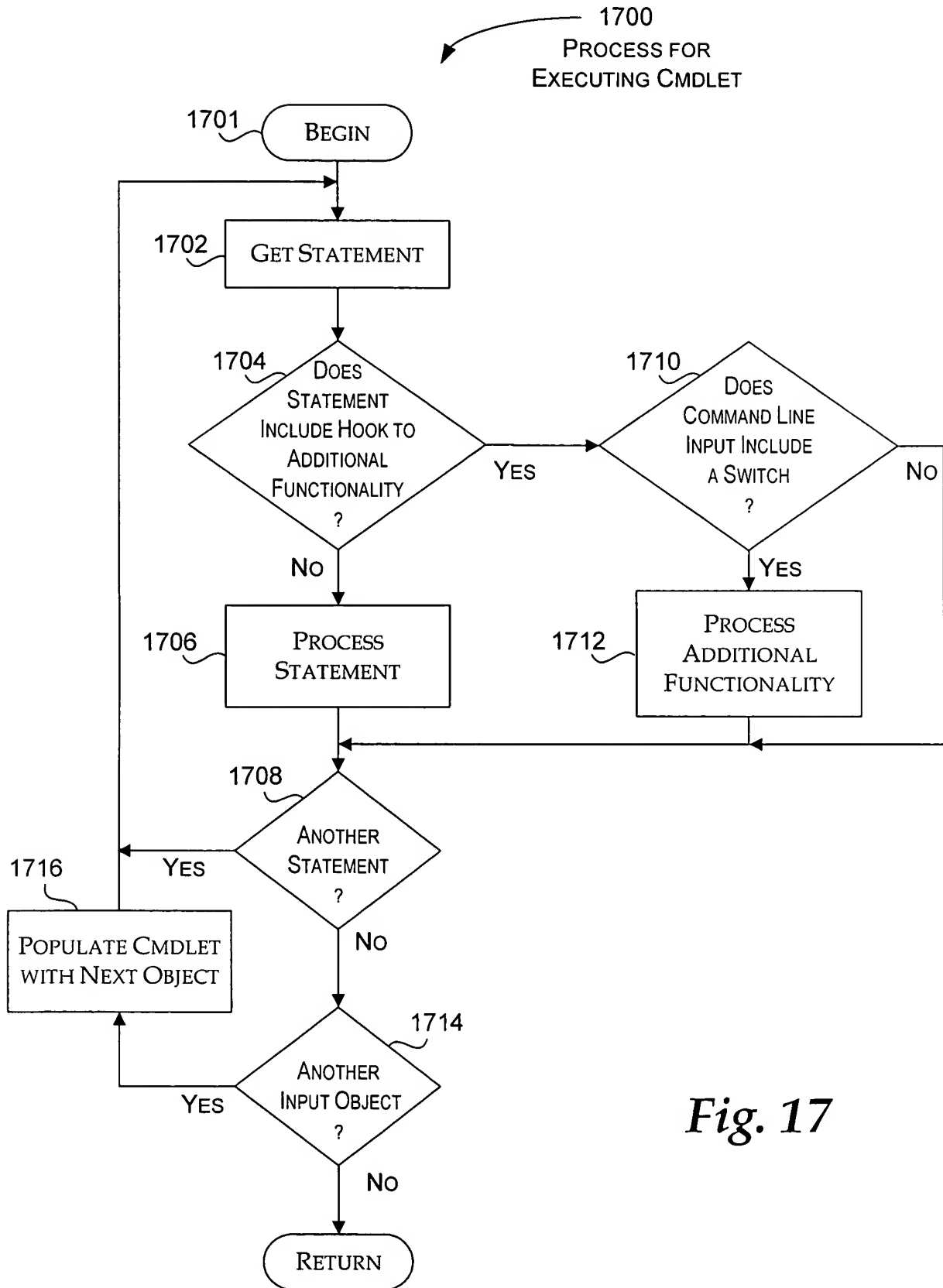
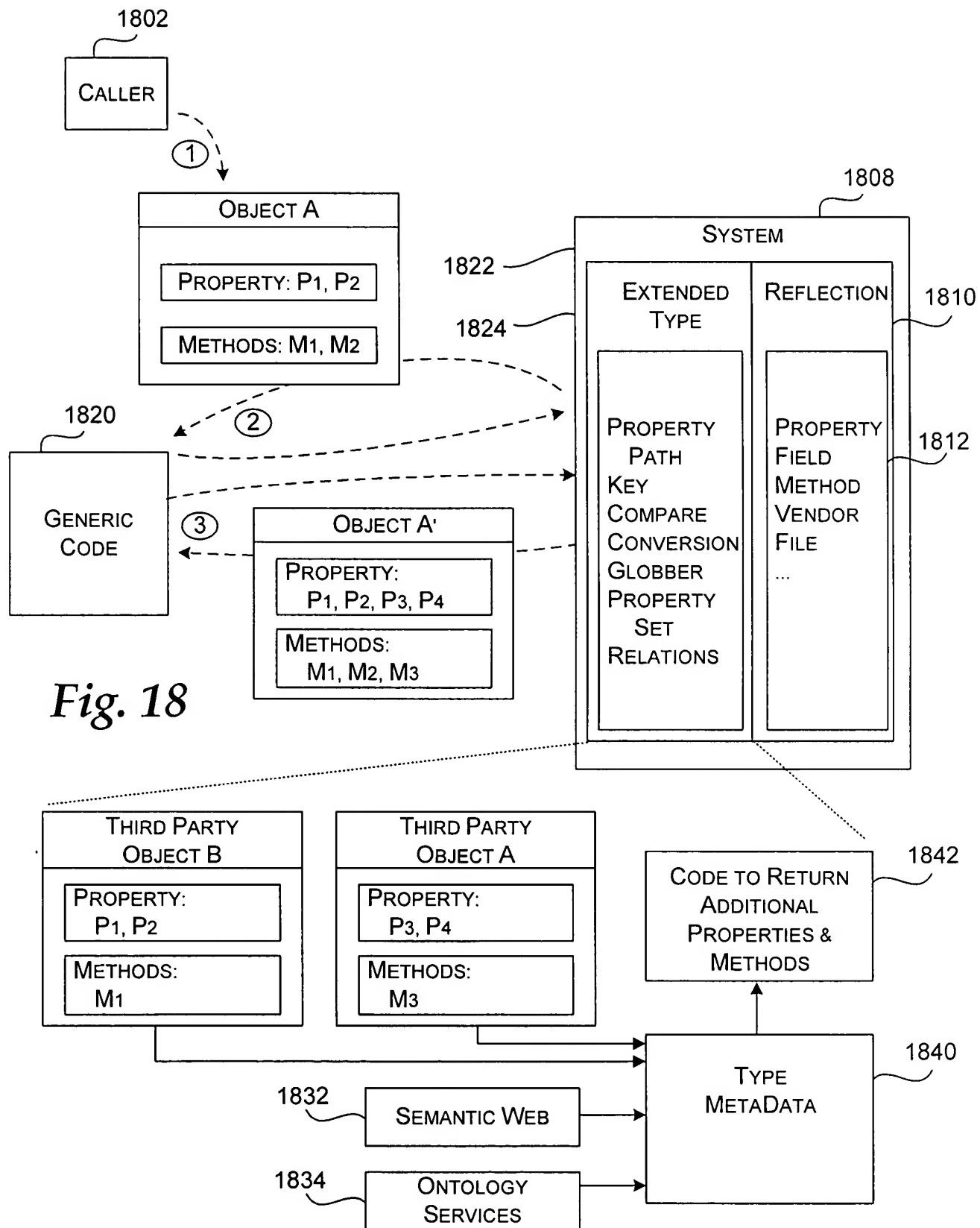


Fig. 17



PIPELINING SEQUENCES FOR DATA DRIVEN OUTPUT

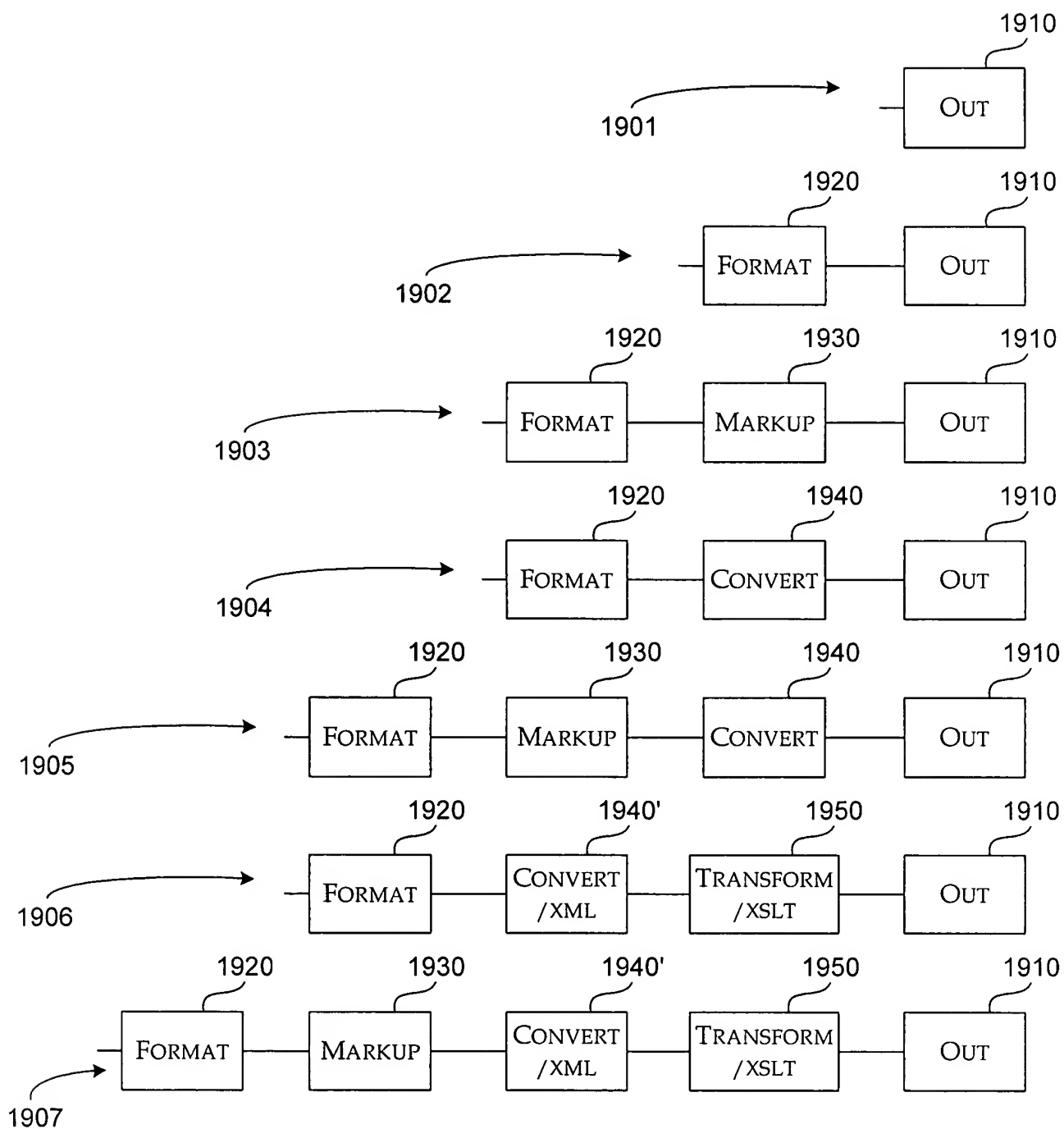
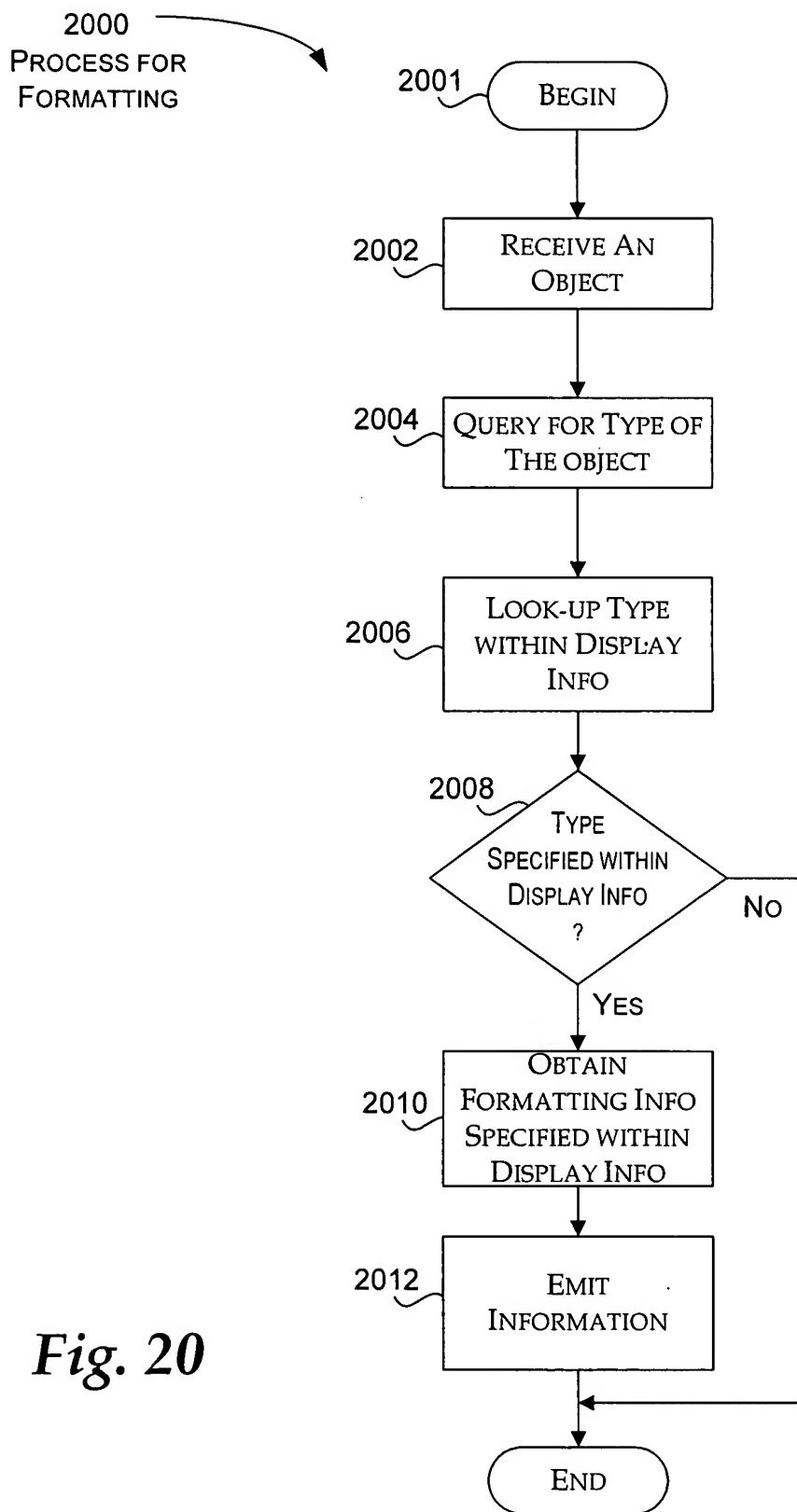



Fig. 19



2100
EXEMPLARY DISPLAY
INFORMATION



```
<DISPLAYINFO>
  <TYPE> DIRECTORYINFO </TYPE>
  <SHAPE> TABLE </SHAPE>
  <COLUMNS>
    <COLUMN>
      <PROPERTYNAME> LASTWRITE TIME </PROPERTYNAME>
    </COLUMN>
    <COLUMN>
      <PROPERTYNAME> SIZE </PROPERTYNAME>
      <ALIGN> LEFT </ALIGN>
      <WIDTH> 10 </WIDTH>
      <FORMATSTRING> D </FORMATSTRING>
      <LABEL> SIZE </LABEL>
    </COLUMN>
  </COLUMNS>
  <HEADER>
    ...
  </HEADER>
  <GROUPBY> PARENTPATH </GROUPBY>
  ...
</DISPLAYINFO>
```

Fig. 21

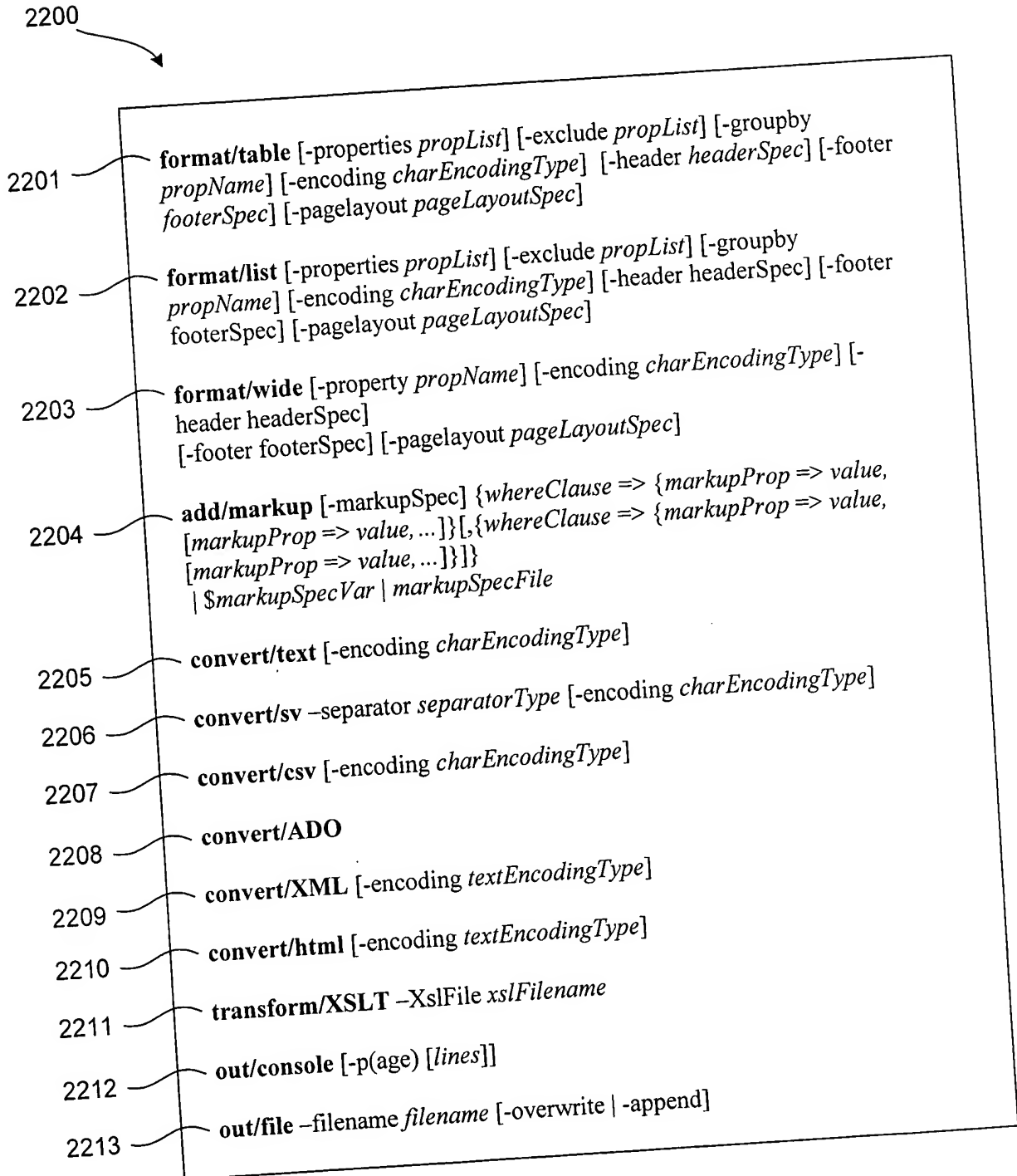


Fig. 22

2300

[1]\$ dir | format/table | out/console

Written	Length.kb	Name
6/28/2002 12:52:10 PM	189	sd.exe
11/7/2002 10:59:18 AM	0	sd.ini
6/28/2002 12:52:10 PM	2,633	sd.pdb
6/28/2002 12:52:18 PM	223	sdscc.dll

[2]\$ dir | format/list brief.set | convert/text | out/console

Written : 6/28/2002 12:52:10 PM
Length.kb : 189
Name : sd.exe

Written : 11/7/2002 10:59:18 AM
Length.kb : 0
Name : sd.ini

Written : 6/28/2002 12:52:10 PM
Length.kb : 2633
Name : sd.pdb

[27]\$ %mymarkupspec = {where length.kb -gt 500 => {applyto => all,
font.name => arial, font.style => bold, font.color => blue}
[28]\$ dir i* | format/table | markup %mymarkupspec | out/console

Written	Length.kb	Name
9/11/2002 3:11:10 PM	1,020	Interop.Excel.dll
9/11/2002 3:11:10 PM	192	Interop.Microsoft.Office.Core.dll
9/11/2002 3:11:10 PM	120	Interop.SHDocVw.dll
9/11/2002 3:11:09 PM	12	Interop.TASKSCHEDULERLib.dll
9/11/2002 3:11:10 PM	56	Interop.VBIDE.dll

[1]\$ dir | format/table | convert/csv | out/console

"Written","Length.kb","Name"
"6/28/2002 12:52:10 PM","189","sd.exe"
"11/7/2002 10:59:18 AM","0","sd.ini"
"6/28/2002 12:52:10 PM","2633","sd.pdb"
"6/28/2002 12:52:18 PM","223","sdscc.dll"

Fig. 23